

FIG. 3A

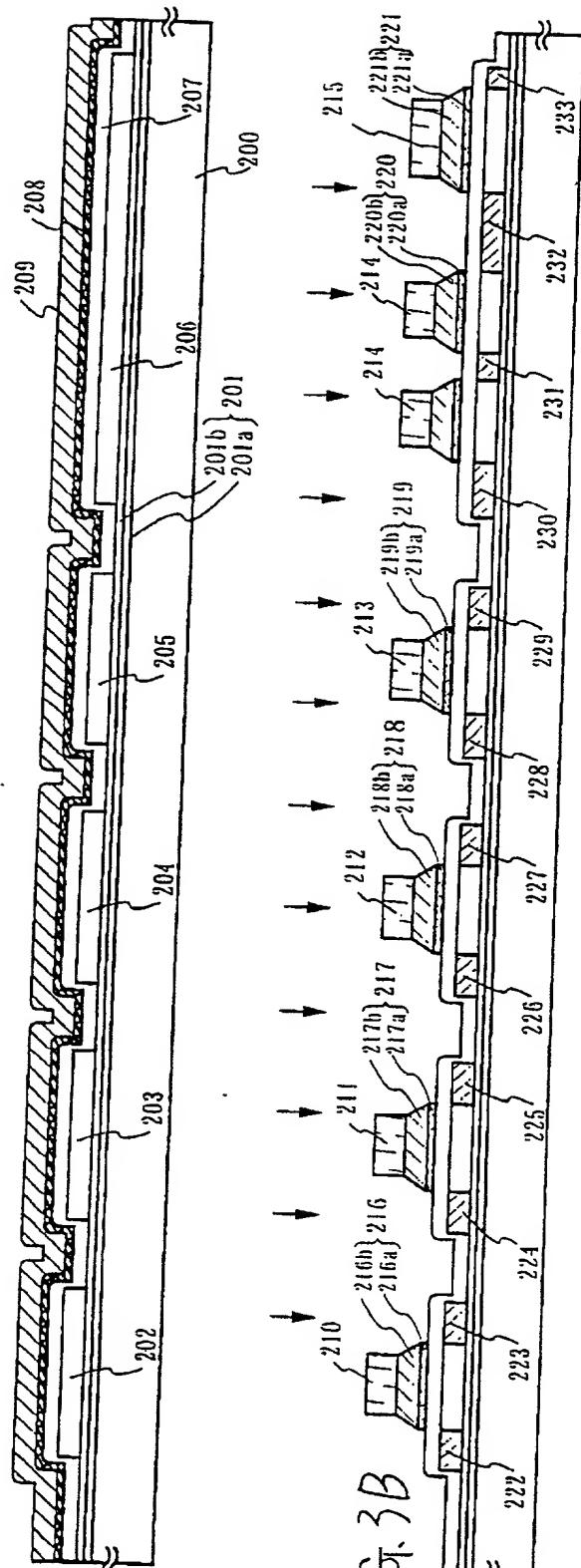


FIG. 3B

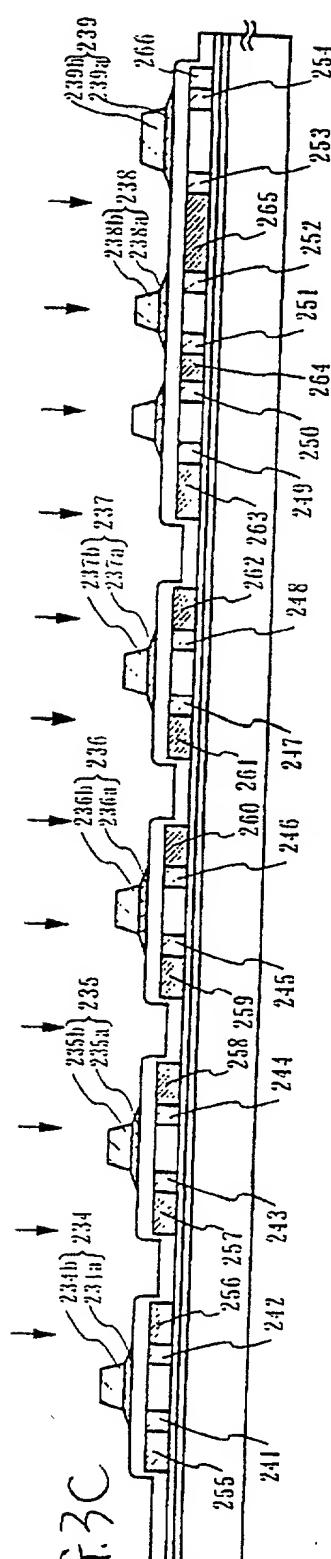


FIG. 3C

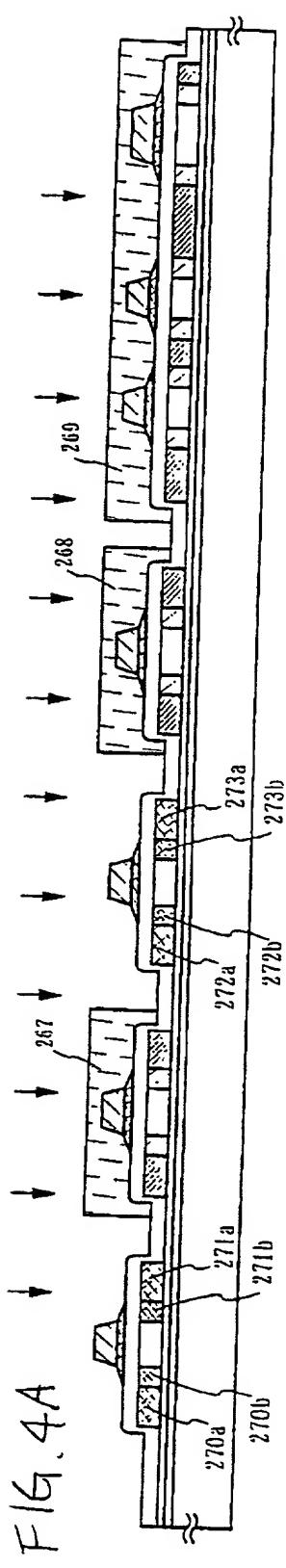


FIG. 4B

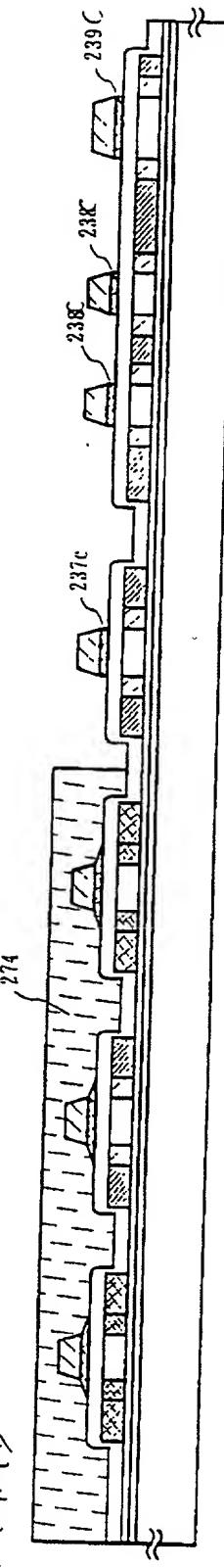
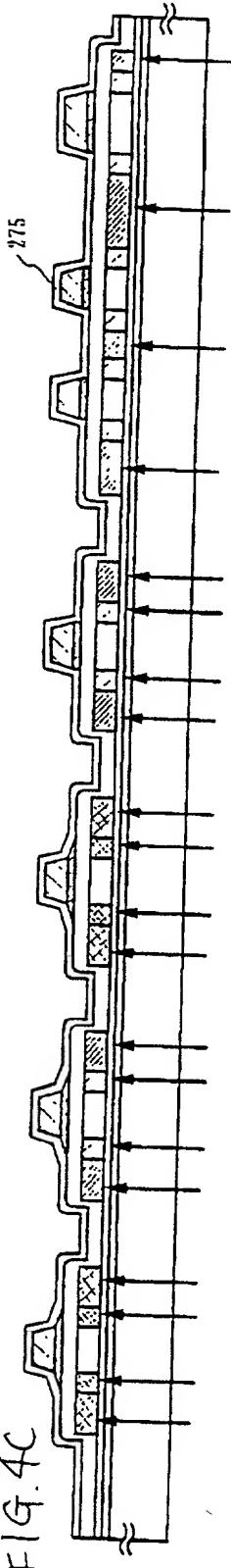


FIG. 4C



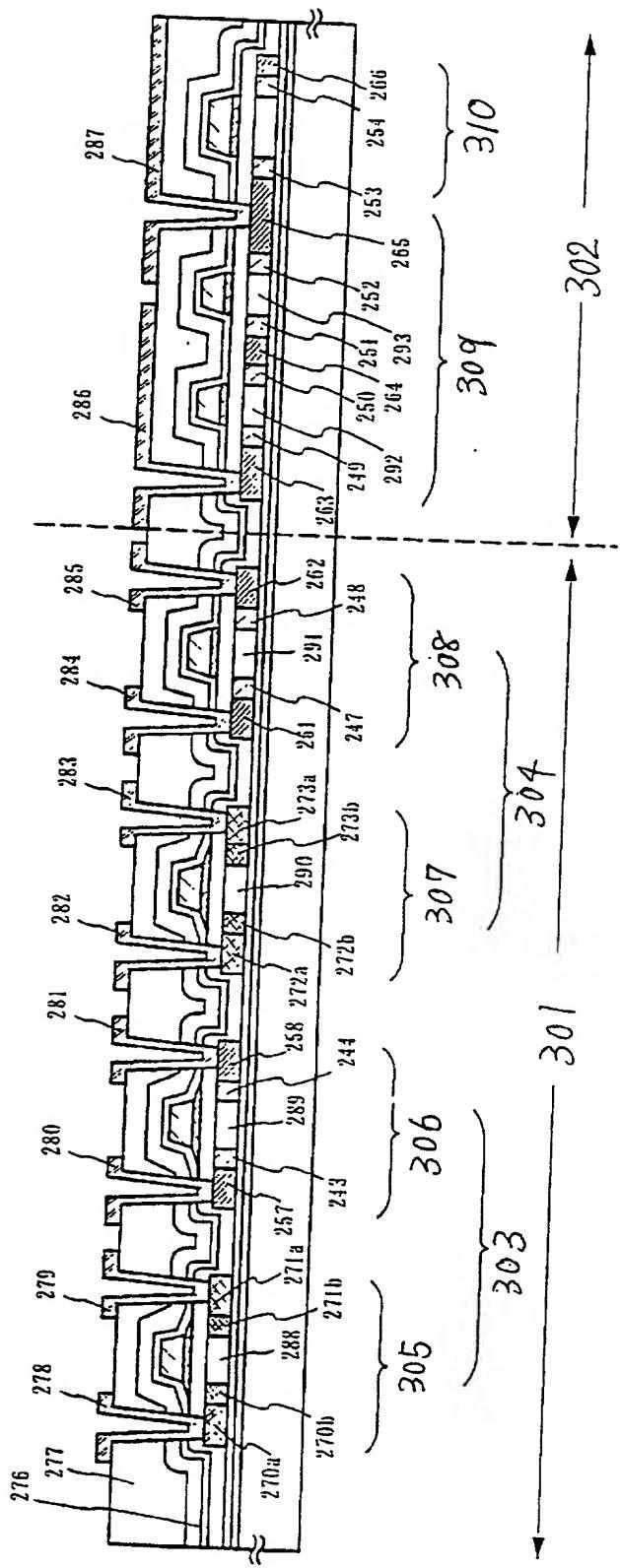


FIG. 5

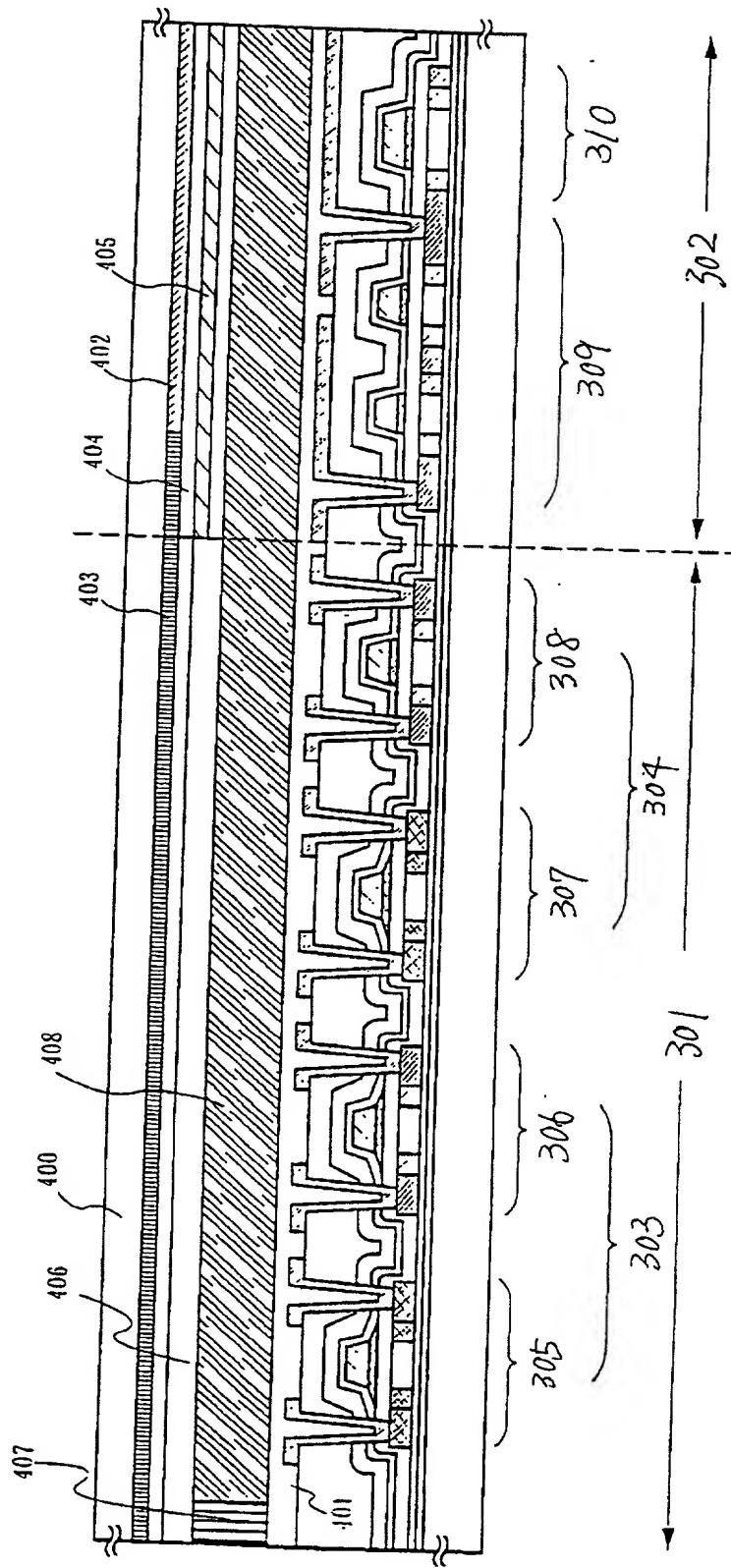


FIG. 6

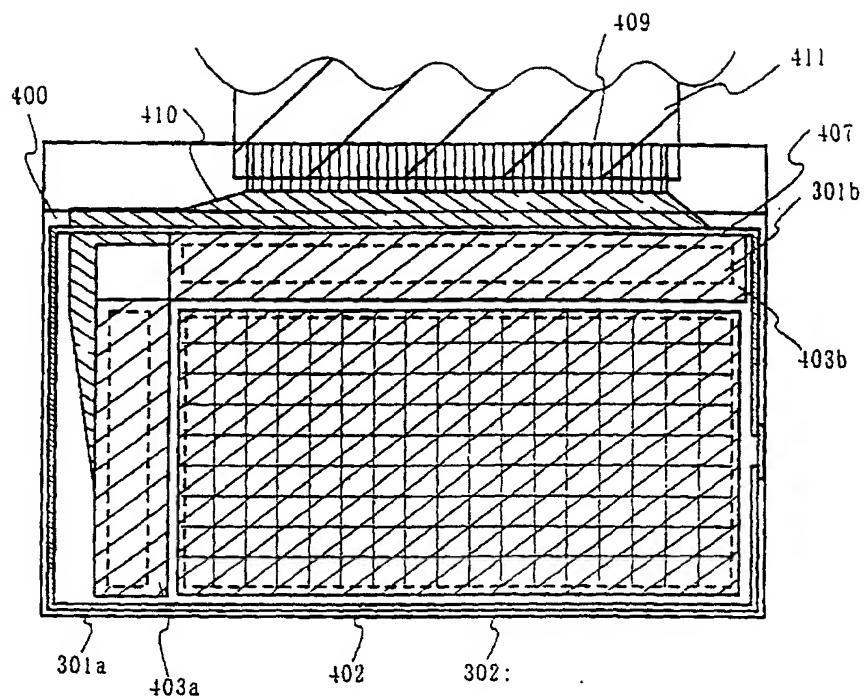


FIG. 7

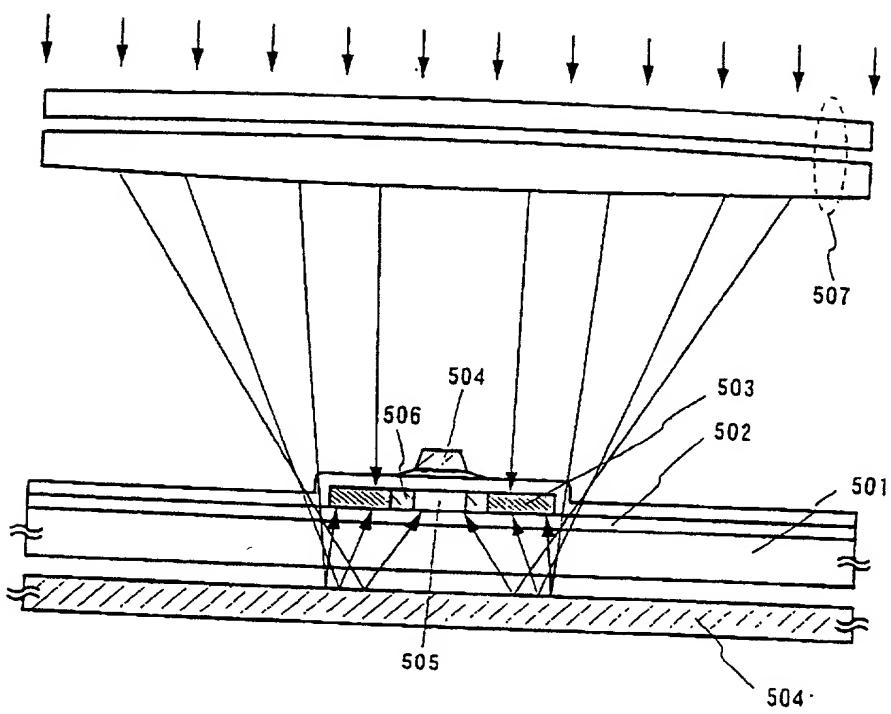


FIG. 8

FIG. 9A

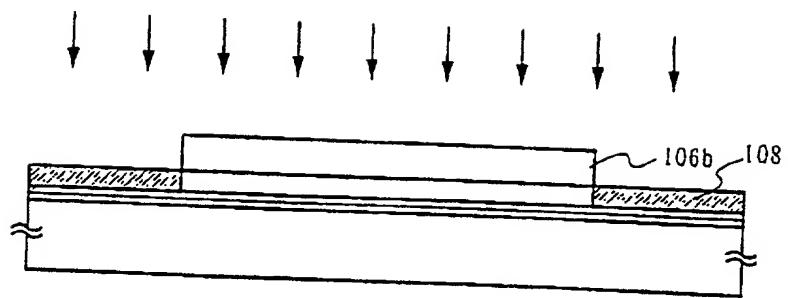


FIG. 9B

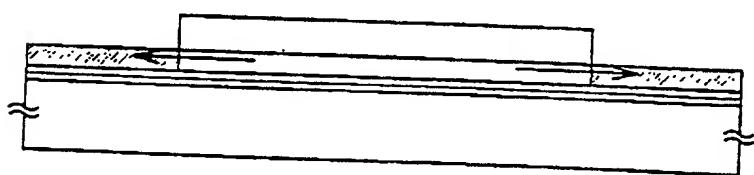


FIG. 9C

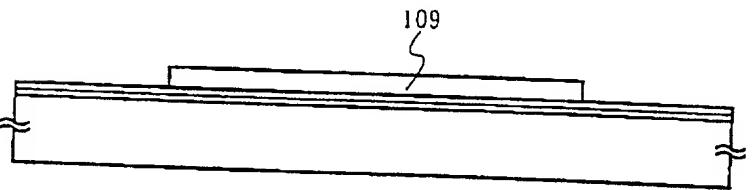


FIG. 9D

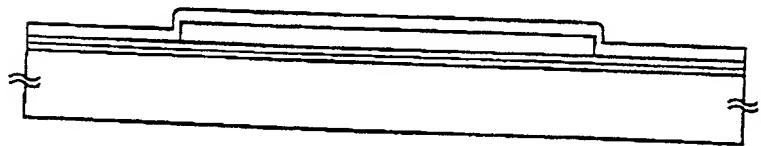


FIG. 10A

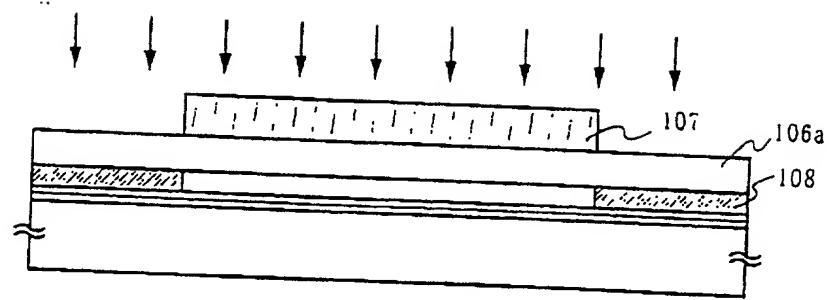


FIG. 10B

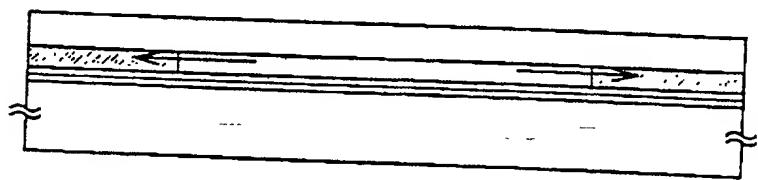


FIG. 10C

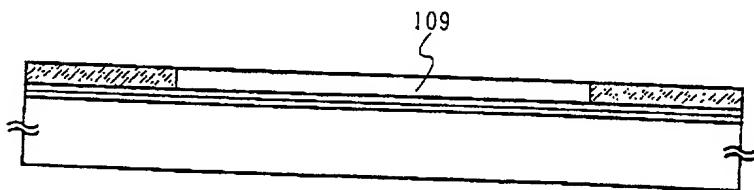
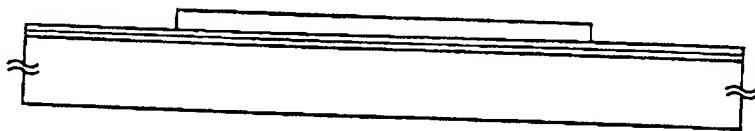


FIG. 10D



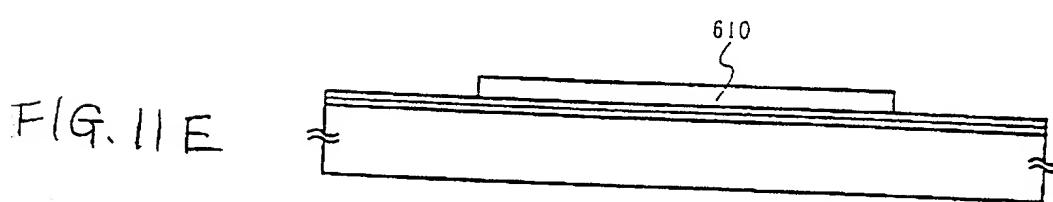
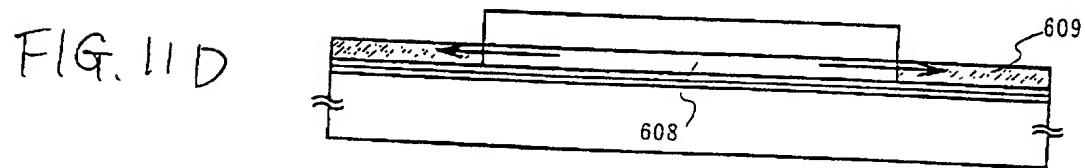
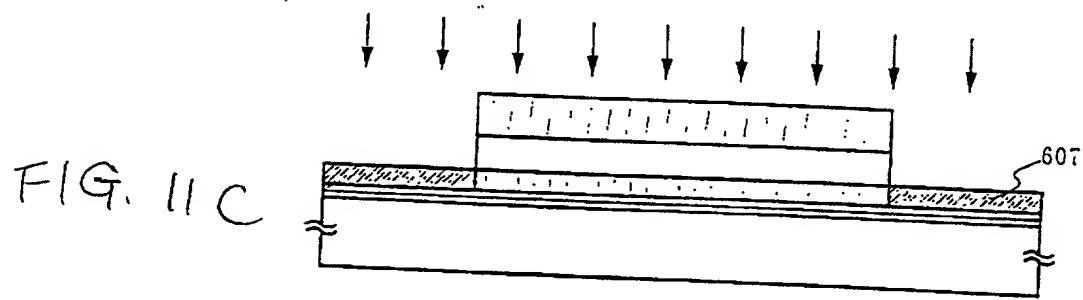
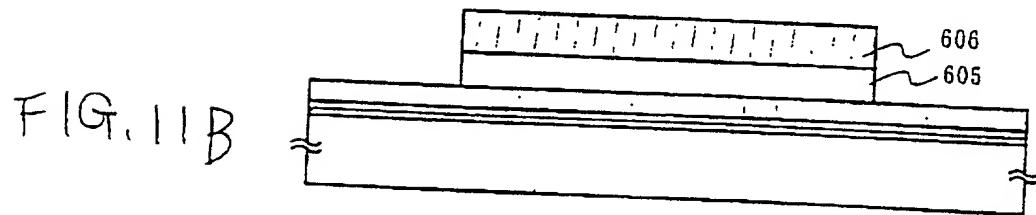
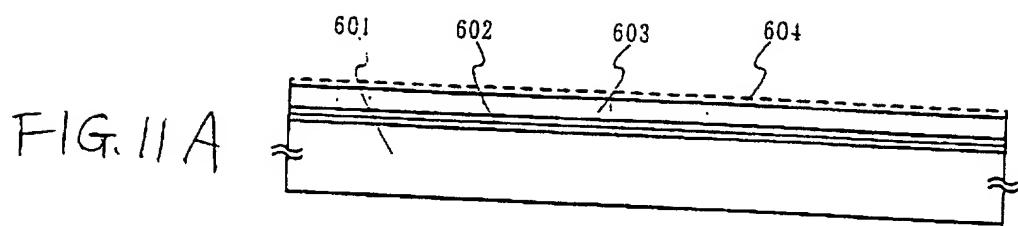


FIG. 12A

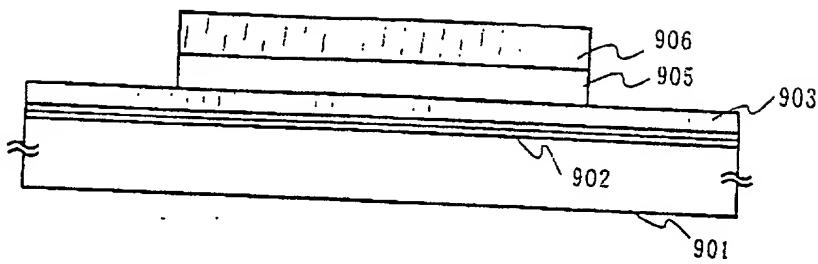


FIG. 12B

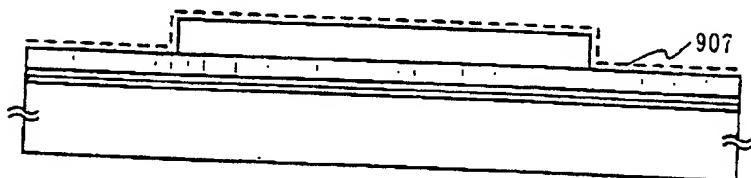


FIG. 12C

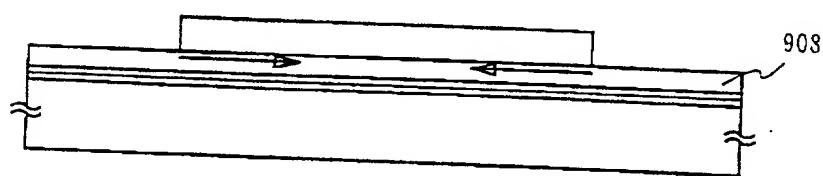


FIG. 12D

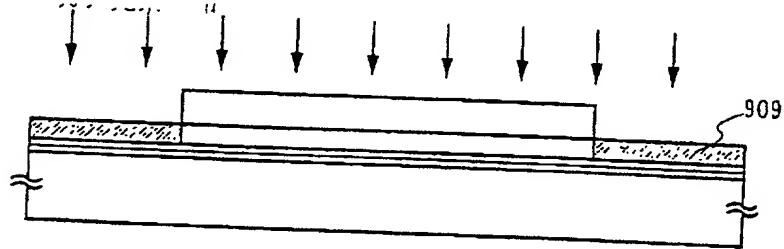


FIG. 12E

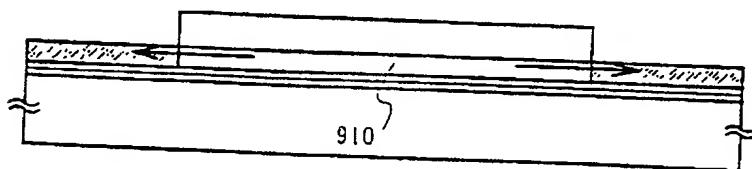


FIG. 12F

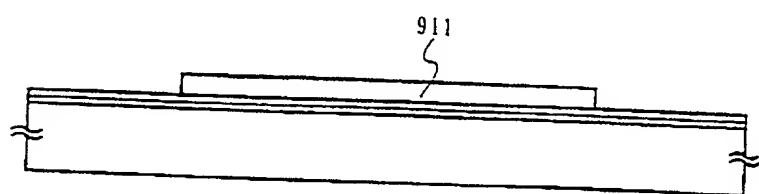


FIG. 13A

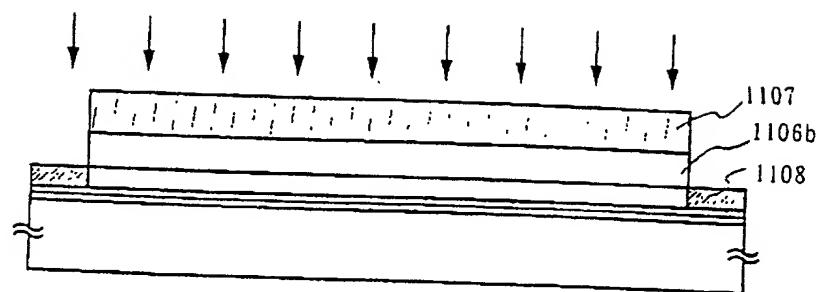


FIG. 13B

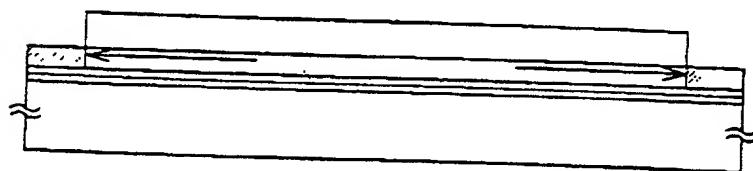


FIG. 13C

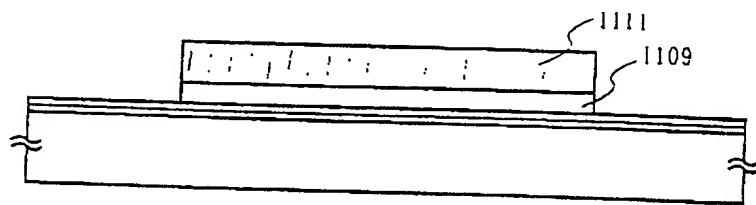


FIG. 13D

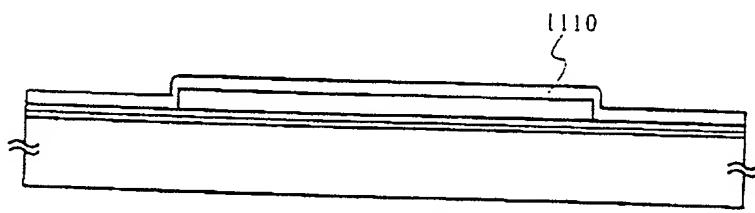


FIG. 14A

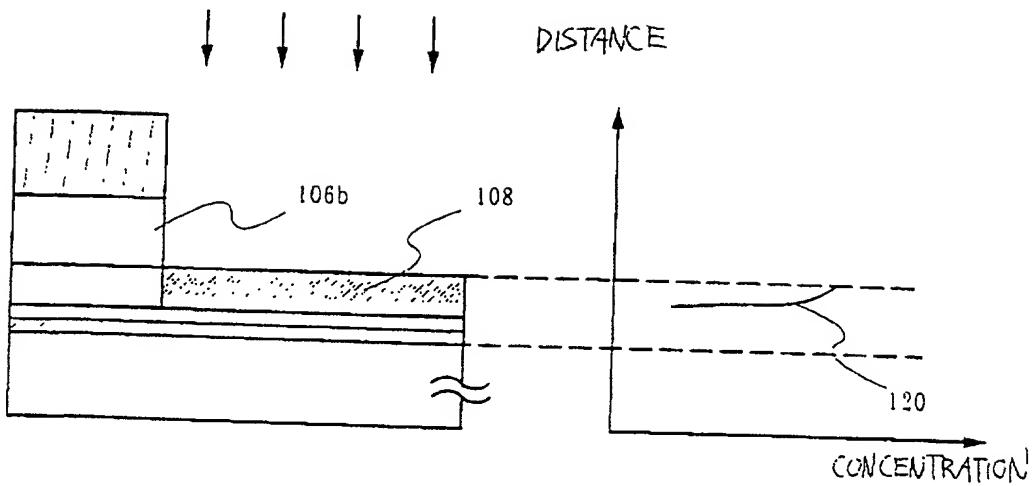


FIG. 14B

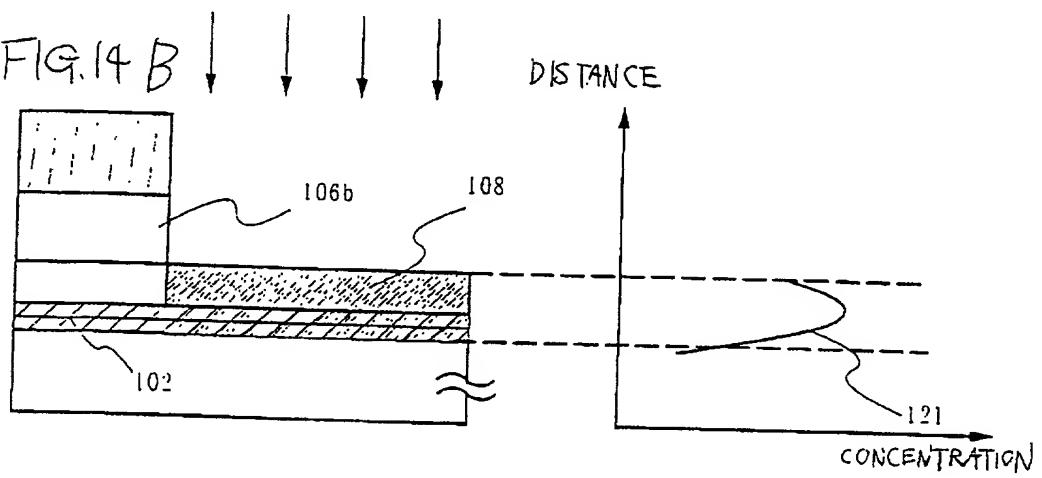
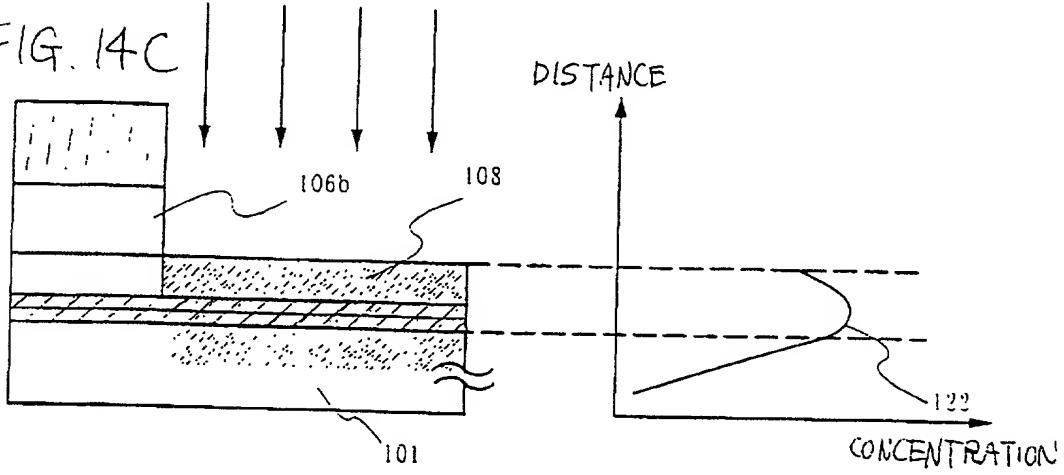


FIG. 14C



100046293 - 03.3.2020

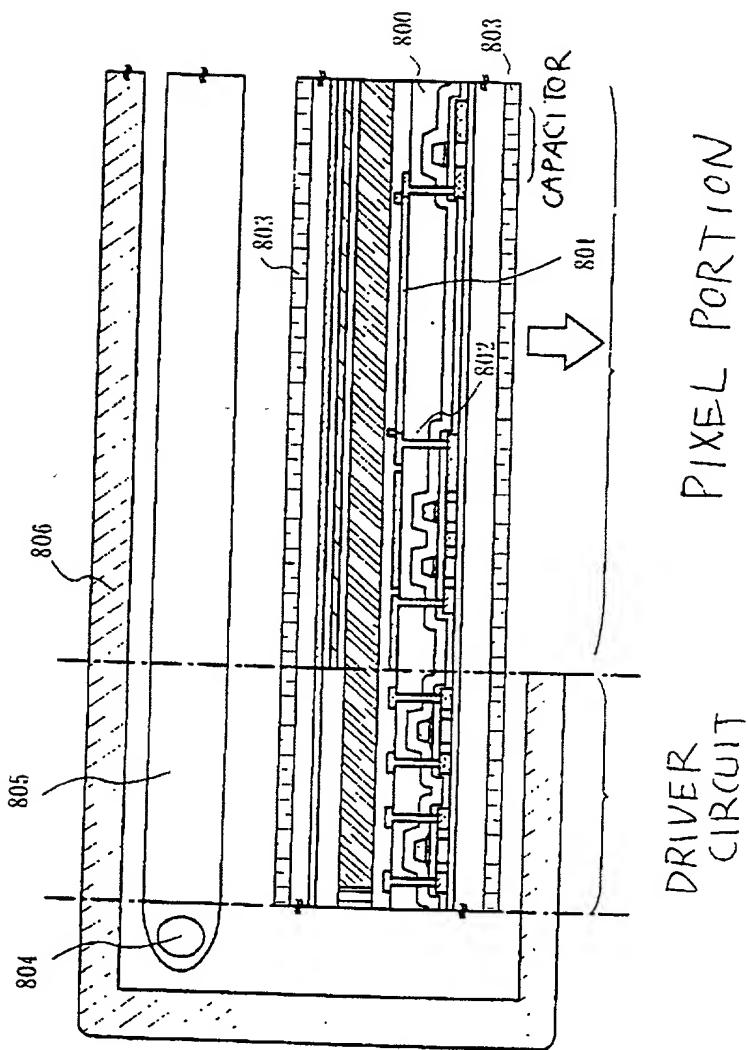


FIG. 15

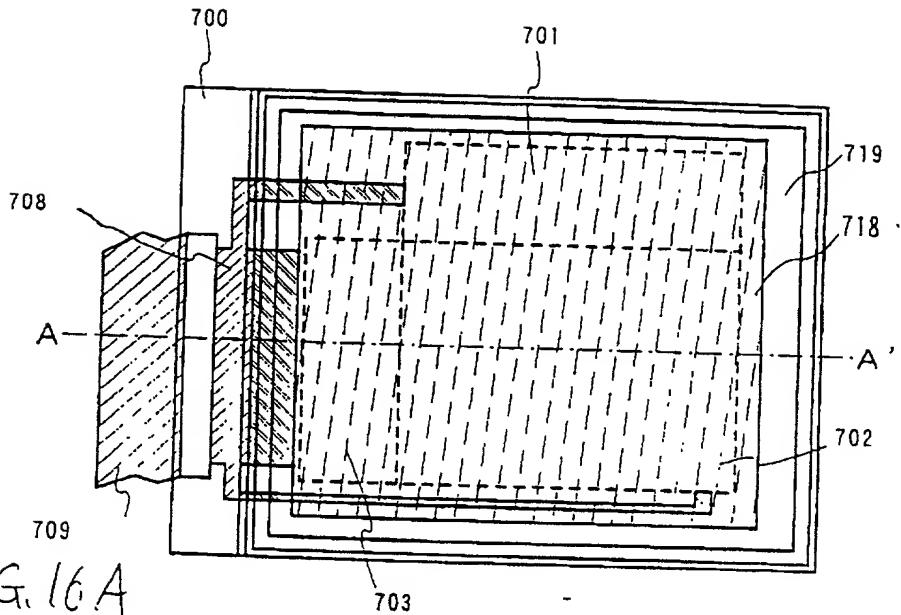


FIG. 16A

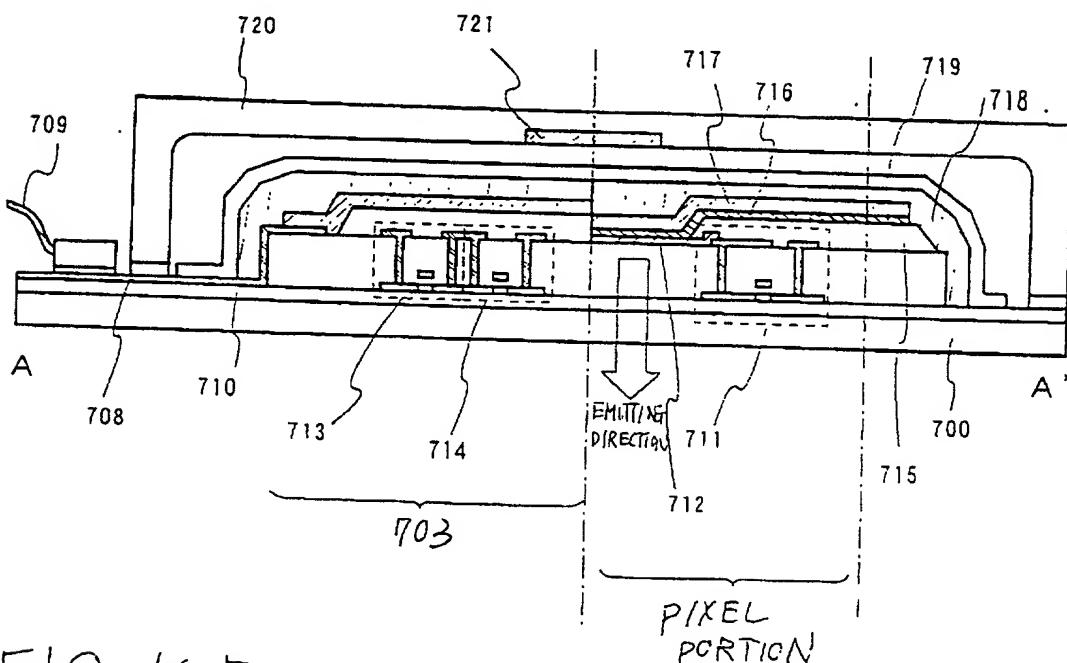


FIG. 16B

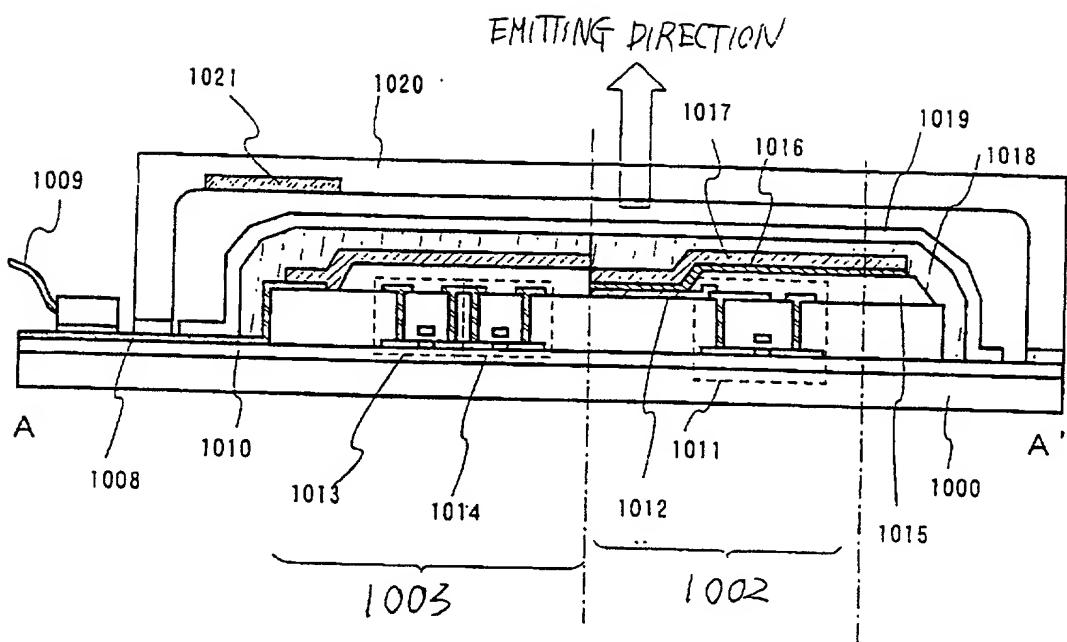


FIG. 17

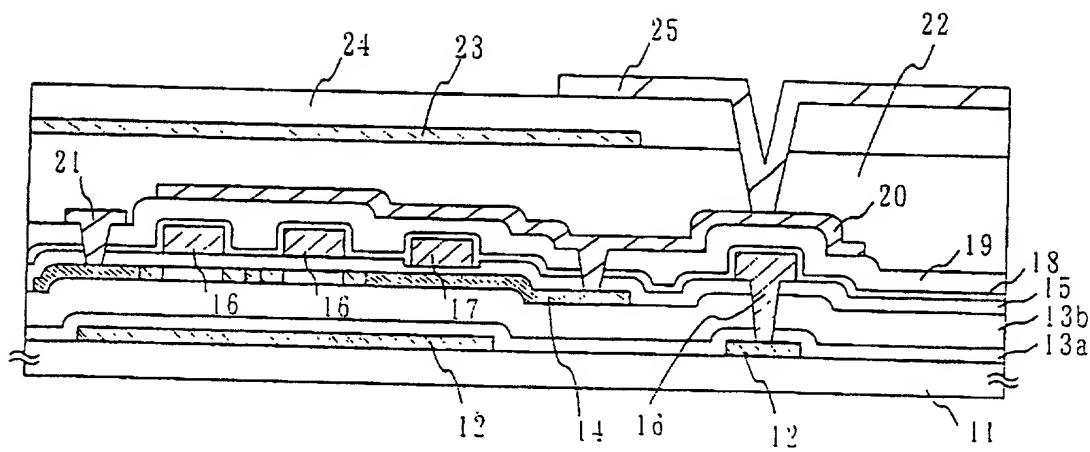


FIG. 18

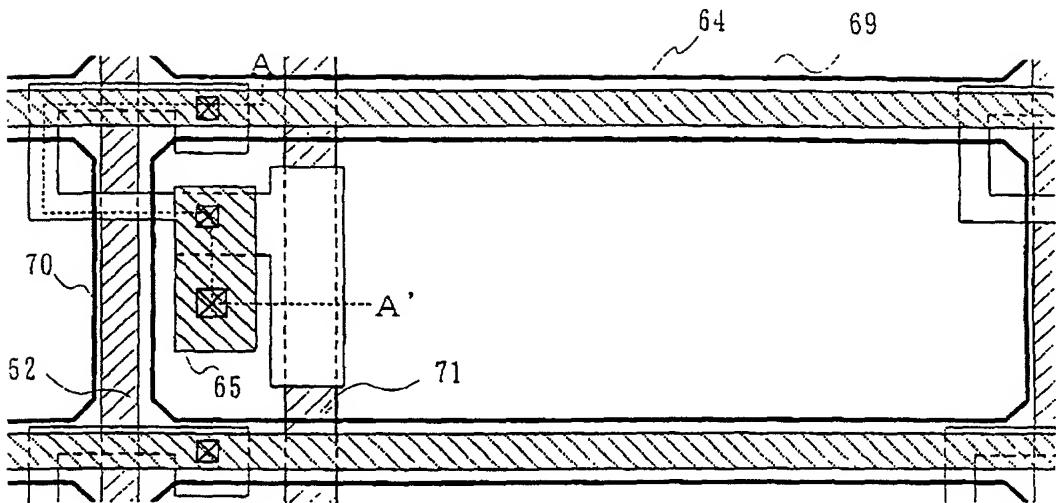


FIG. 19A

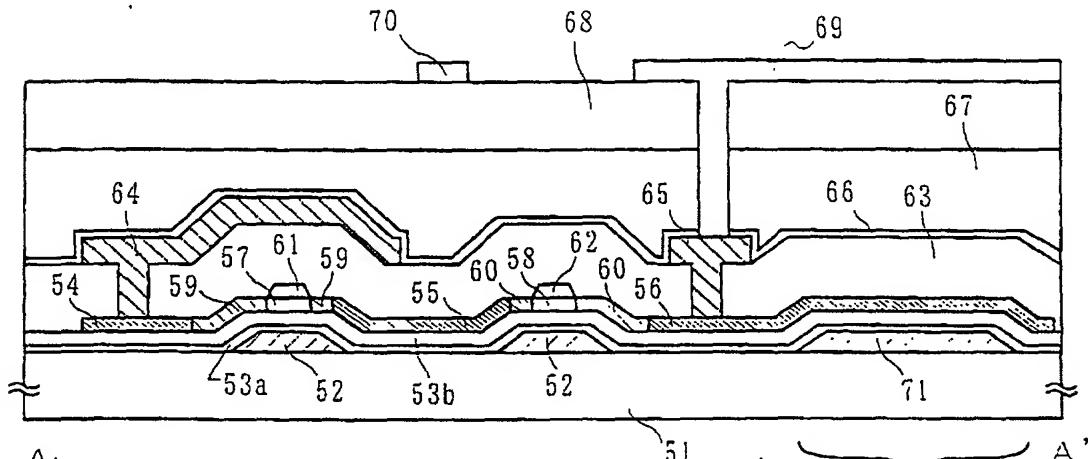


FIG. 19B

PIXEL TFT PORTION

CAPACITOR PORTION

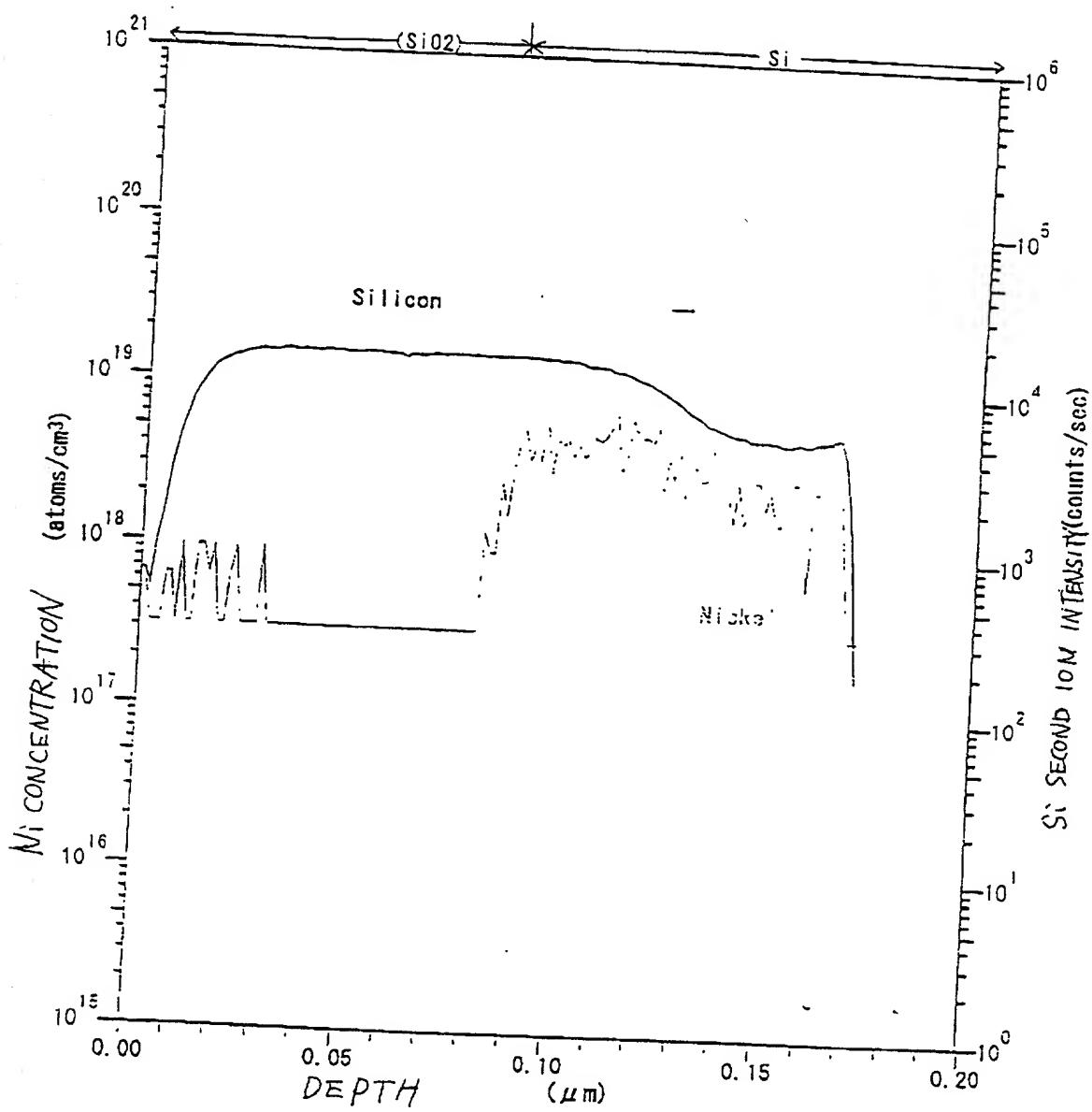


FIG. 20

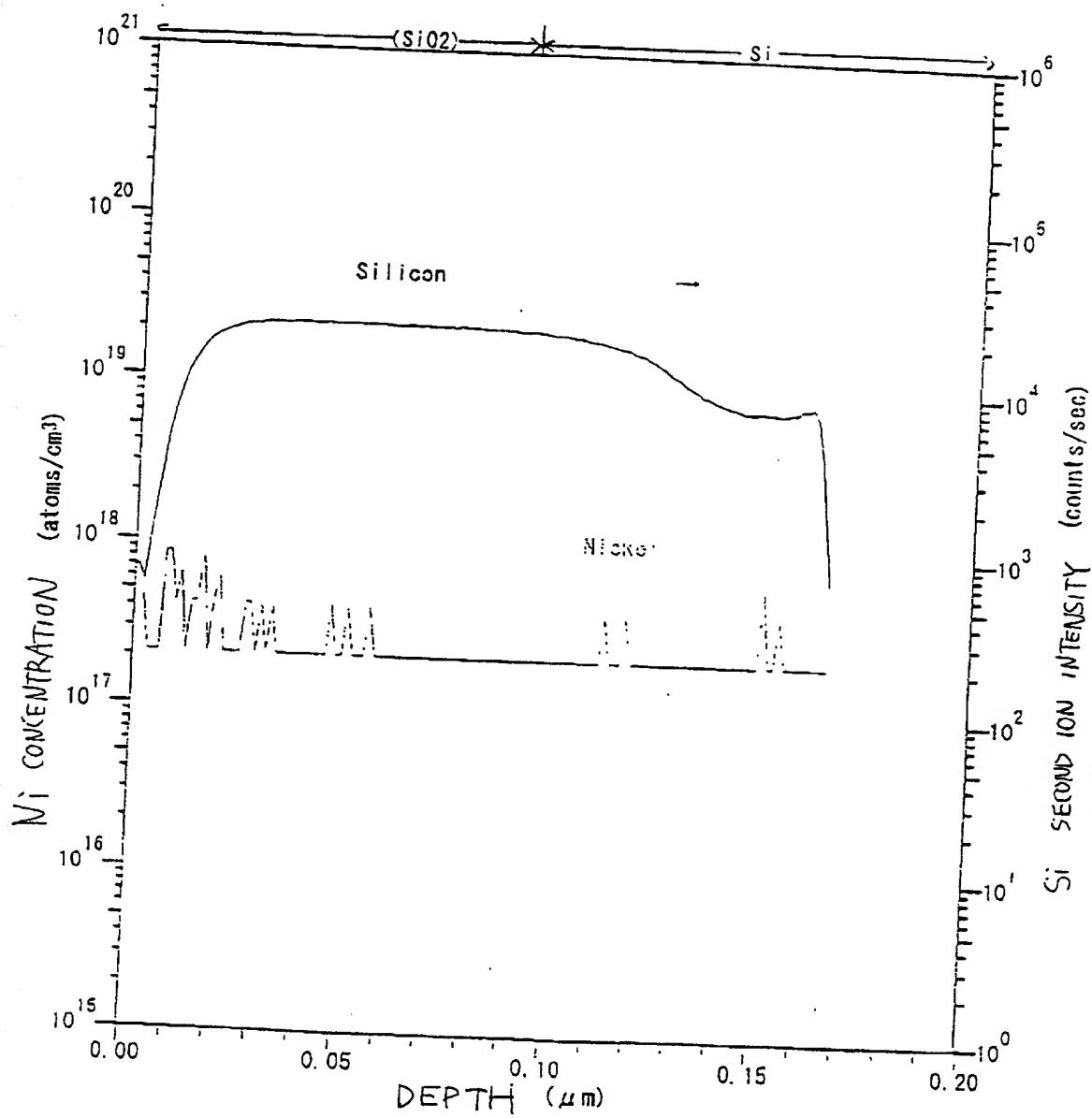


FIG. 2

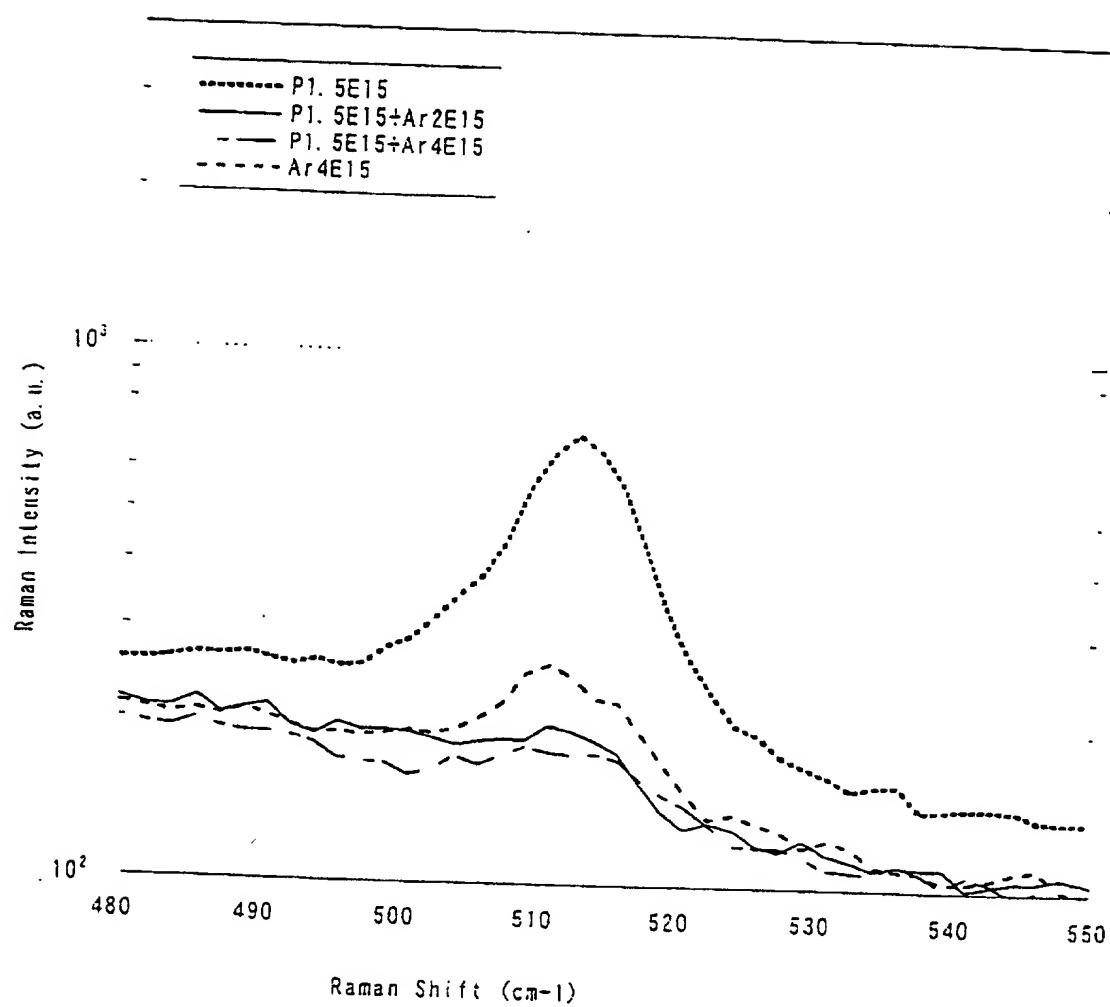


FIG. 22

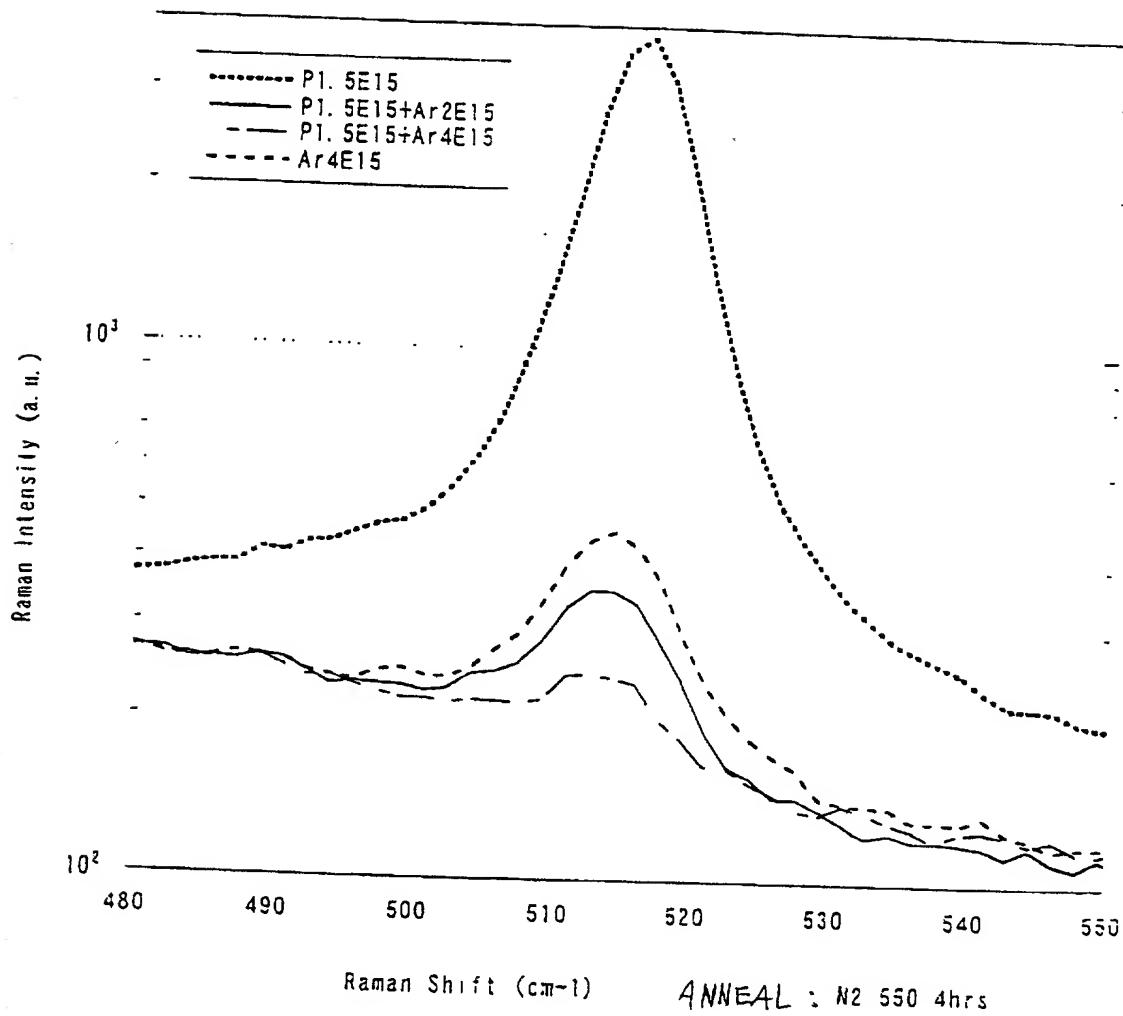


FIG. 23

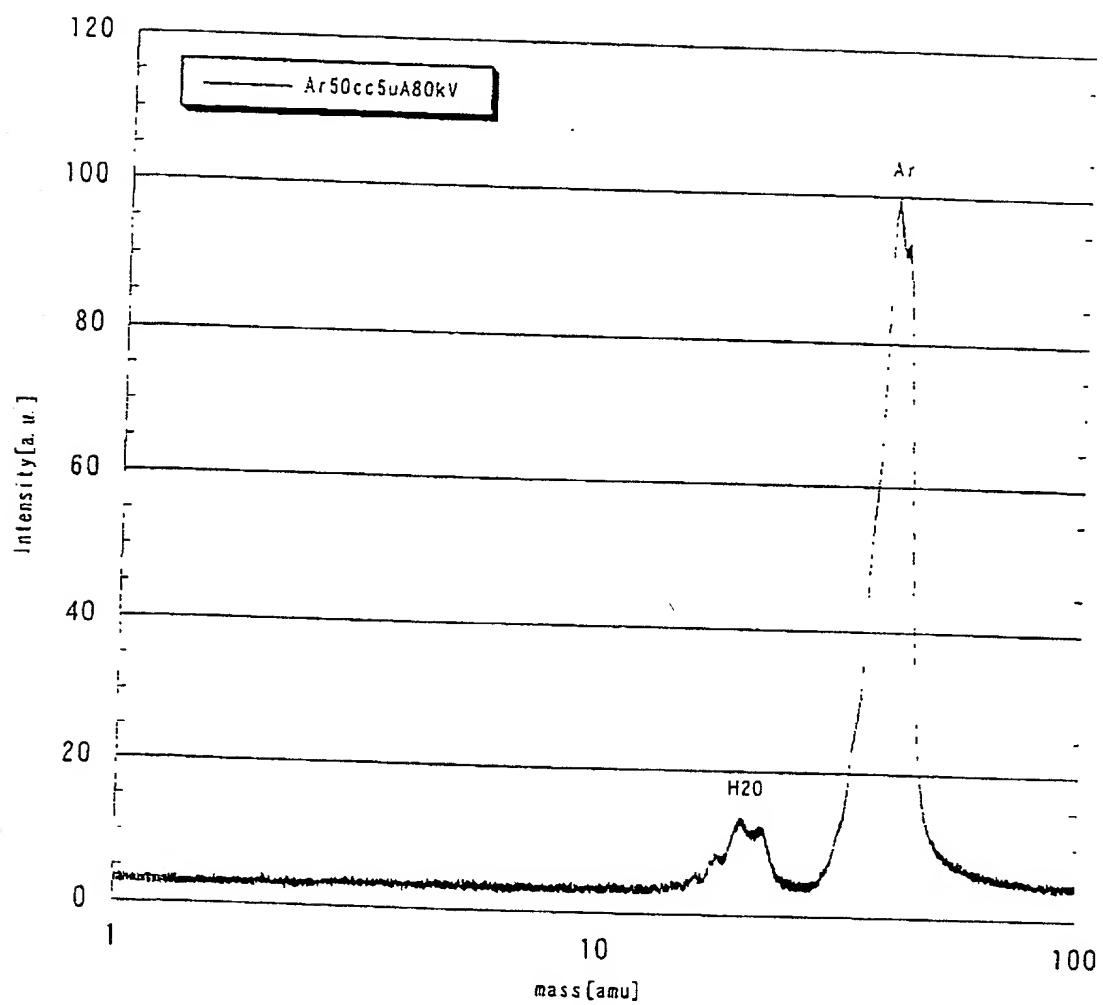
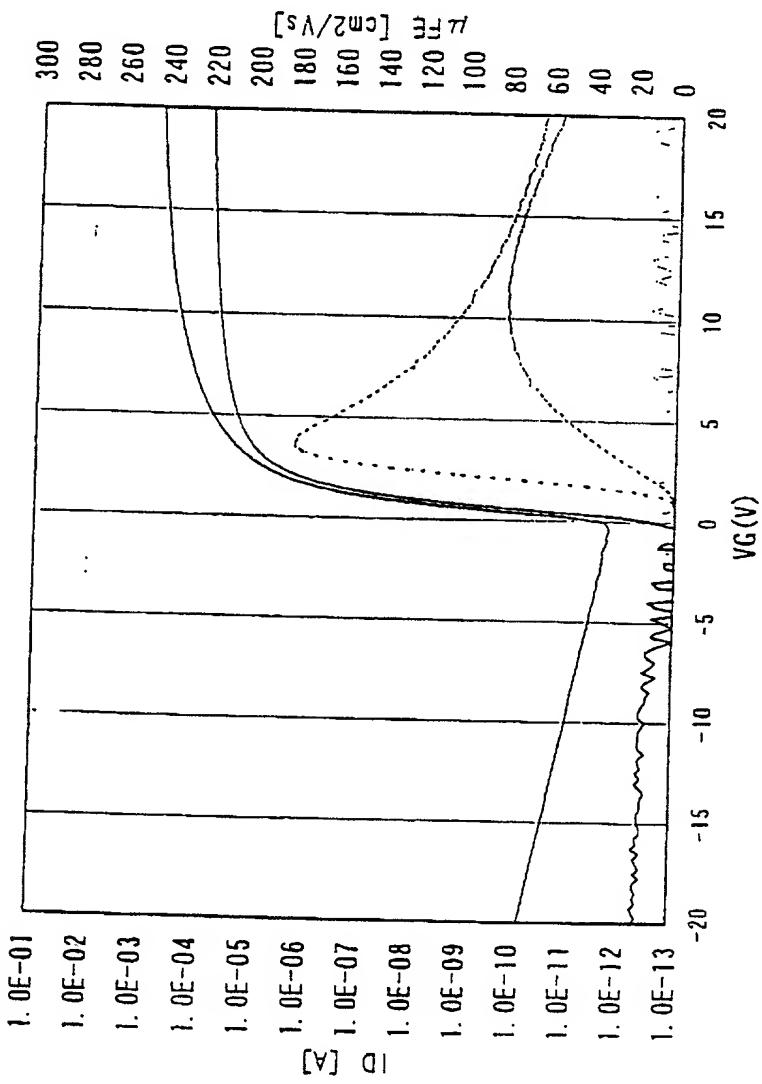


FIG. 24

AP005-17, Unit S XA3 Y11 (fC), N-ch, L/W=7/8,
 $T_{ox} = 115$



Lot No.:	AP005 CN
FILE NAME	CHNSA311
Comment	SemiAuto
PARAMETER OF MEASUREMENT	
VD start	280
VD step	13
VD step number	2
PARAMETER OF CALCULATION	
CHANNEL TYPE	N
L [μm]	7.0
W [μm]	8.0
DIELECTRIC CONSTANT	4.1
THICKNESS OF OXIDE	115
RESULT OF CALCULATION	
Ion_2 [A]	3.4E-04
loff_2 [A]	3.70E-12
Shift_1[V]	0.231
Vth [V]	1.222
S-value [V/dec]	0.175
μFE (max) [cm^2/Vs]	179.9

FIG. 25

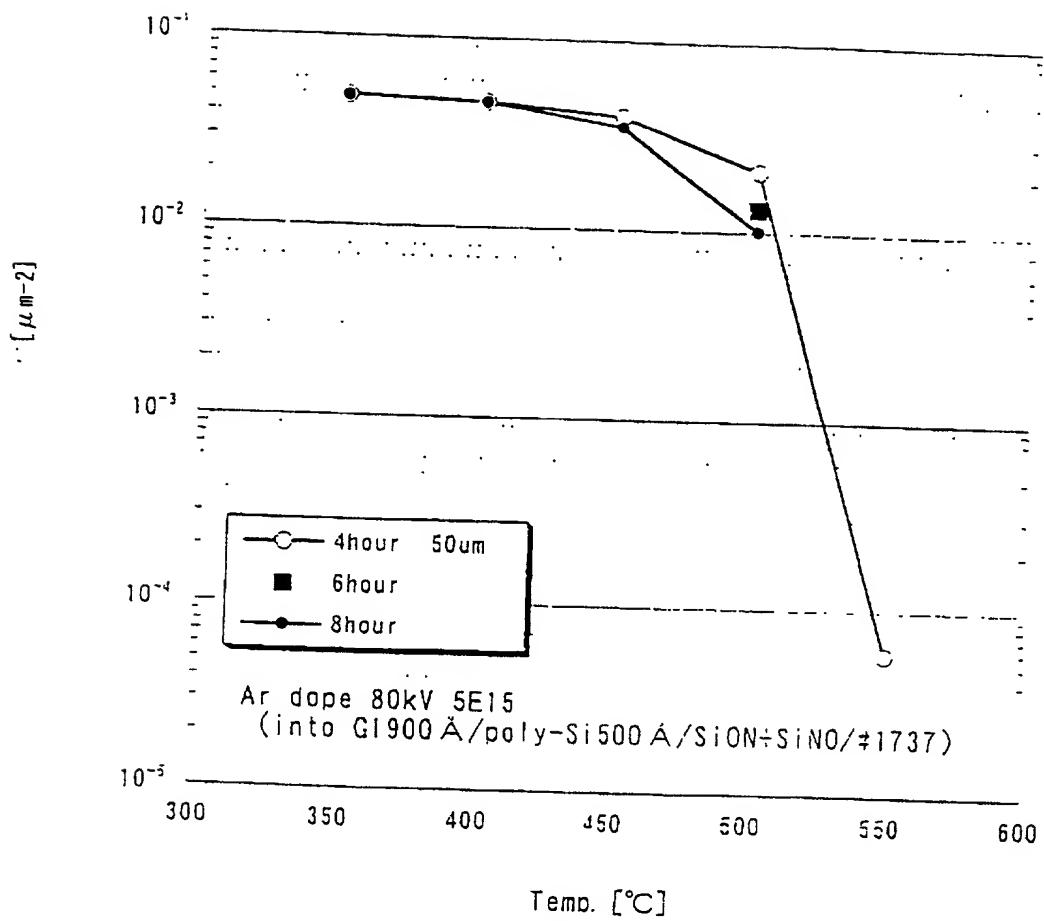


FIG. 26

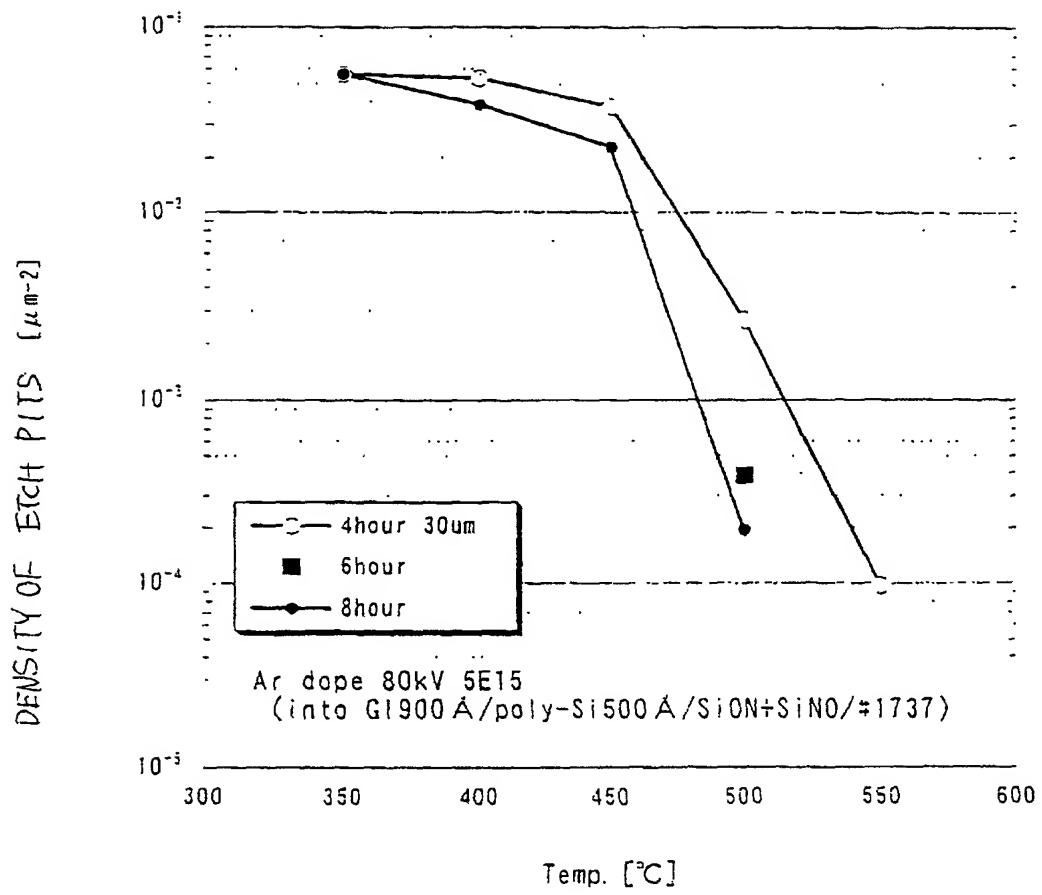


FIG. 27

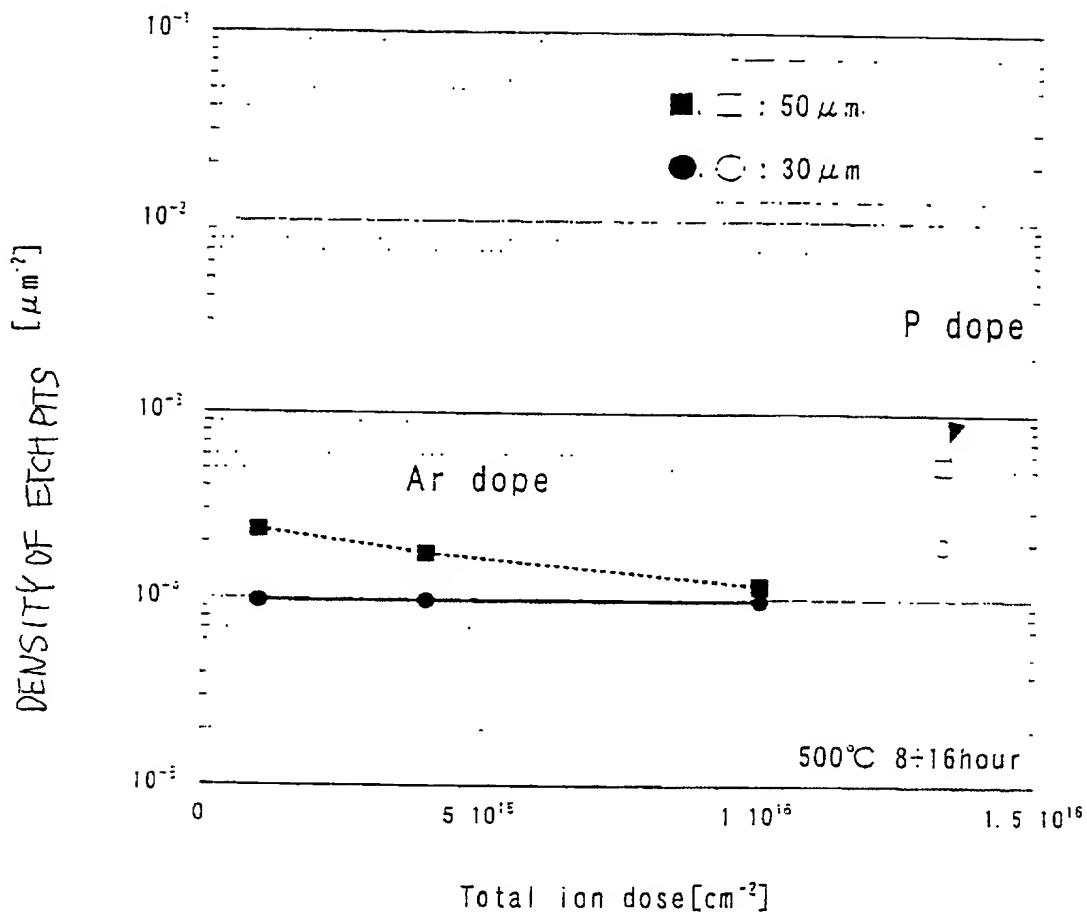


FIG. 28

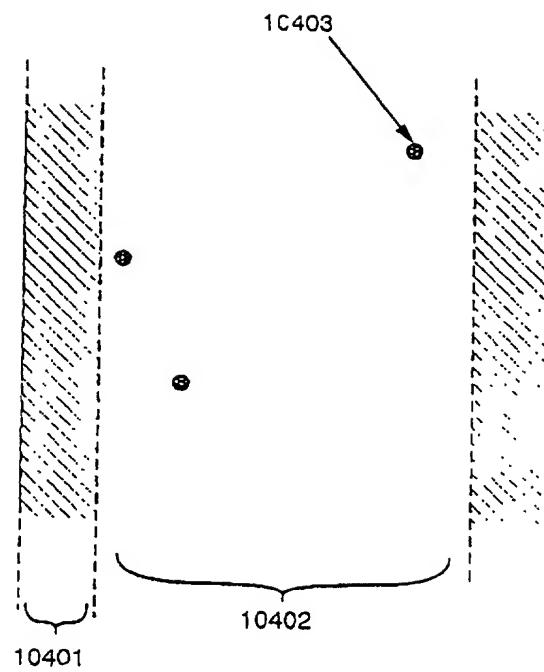


FIG. 29

FIG. 30A

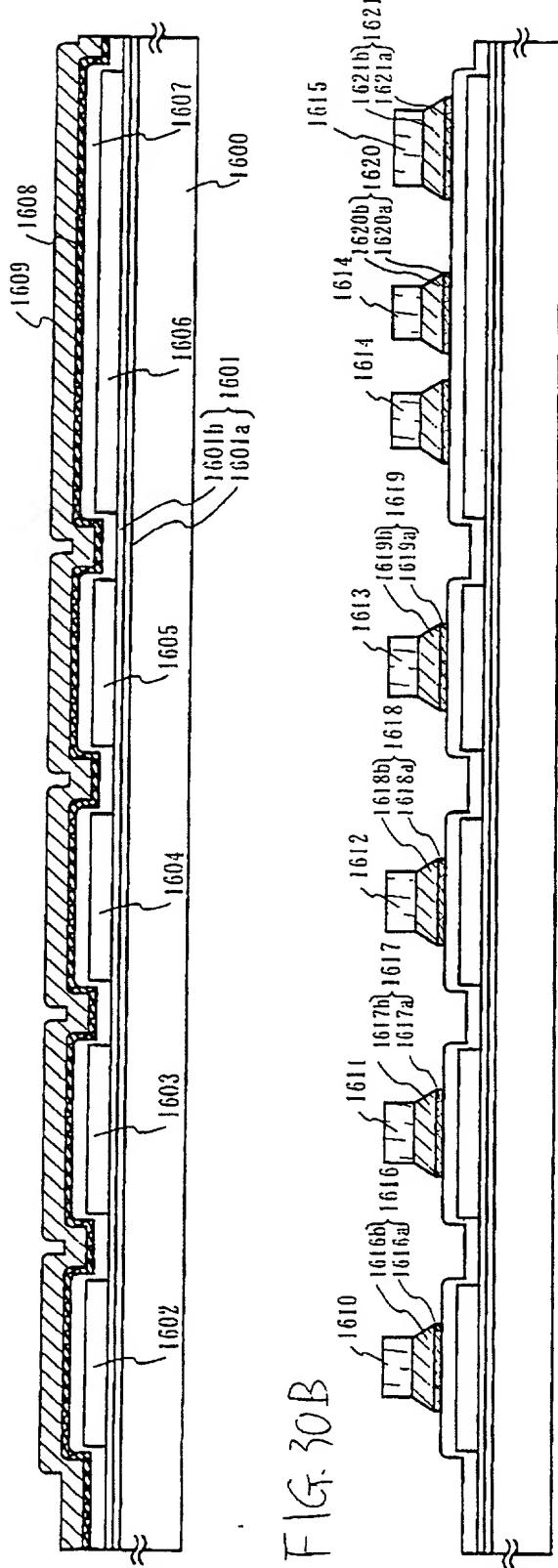
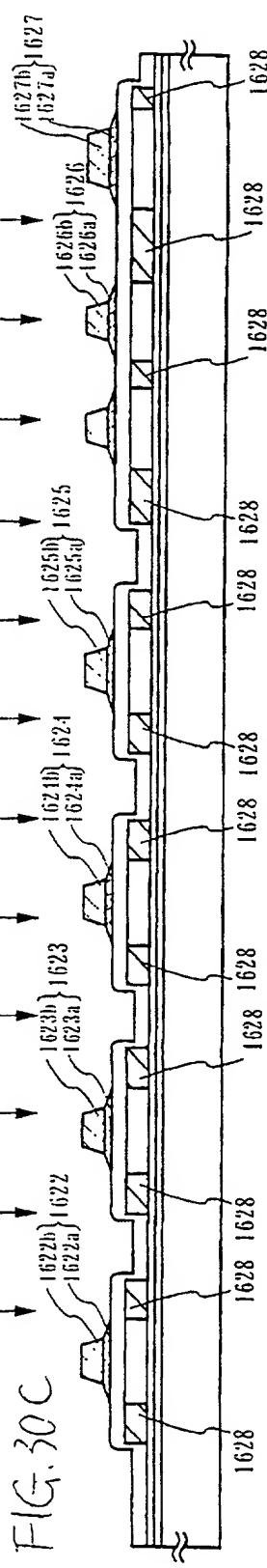
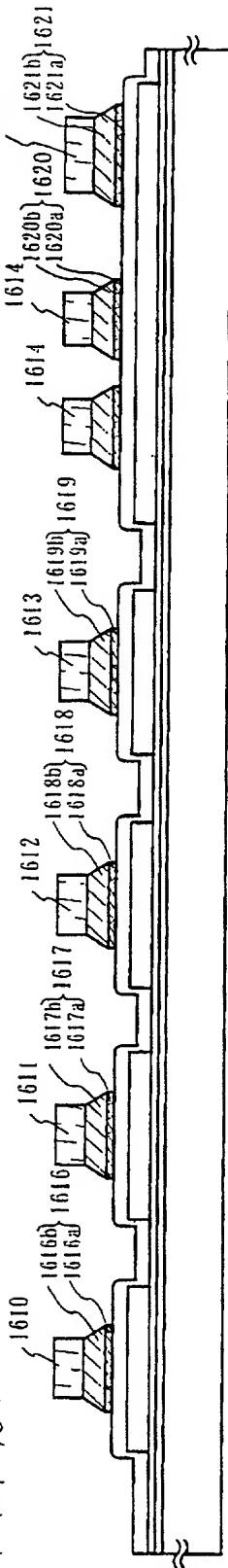
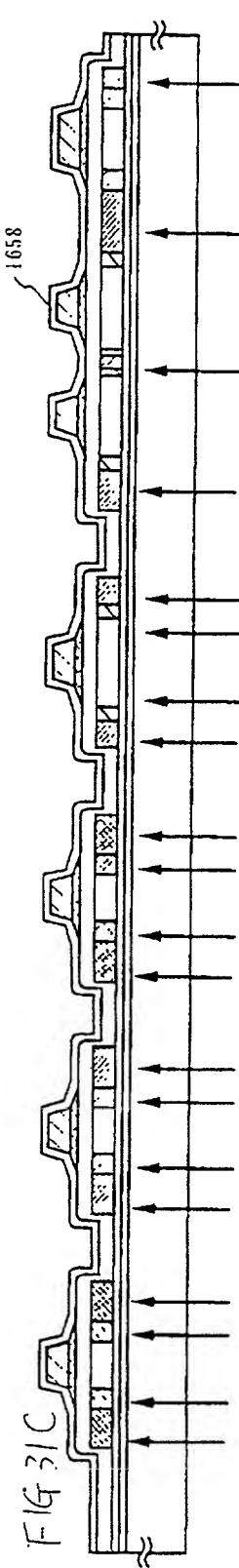
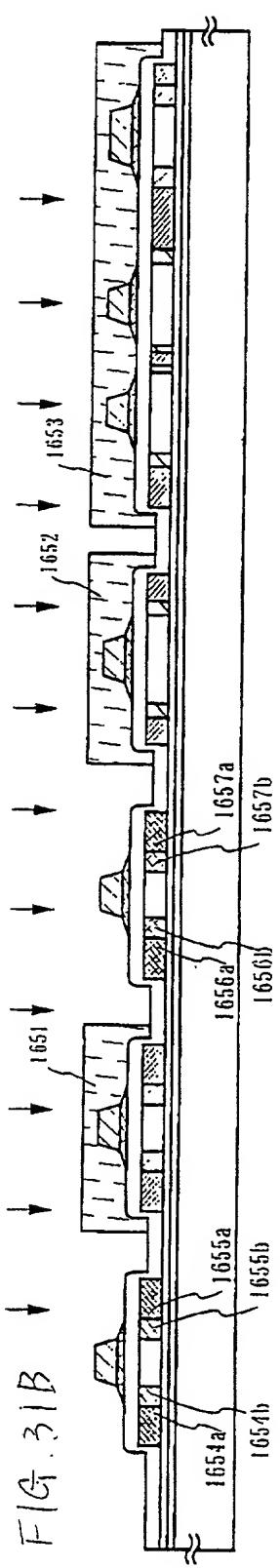
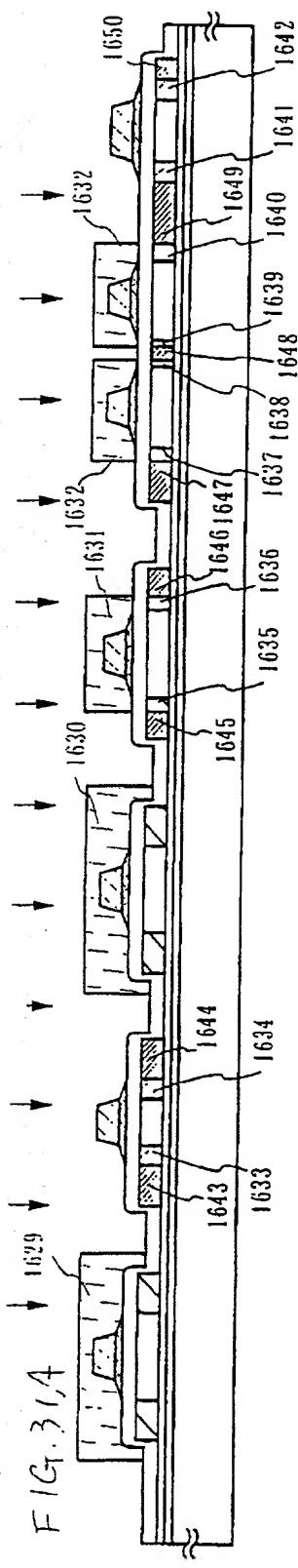


FIG. 30B



2007000000000000



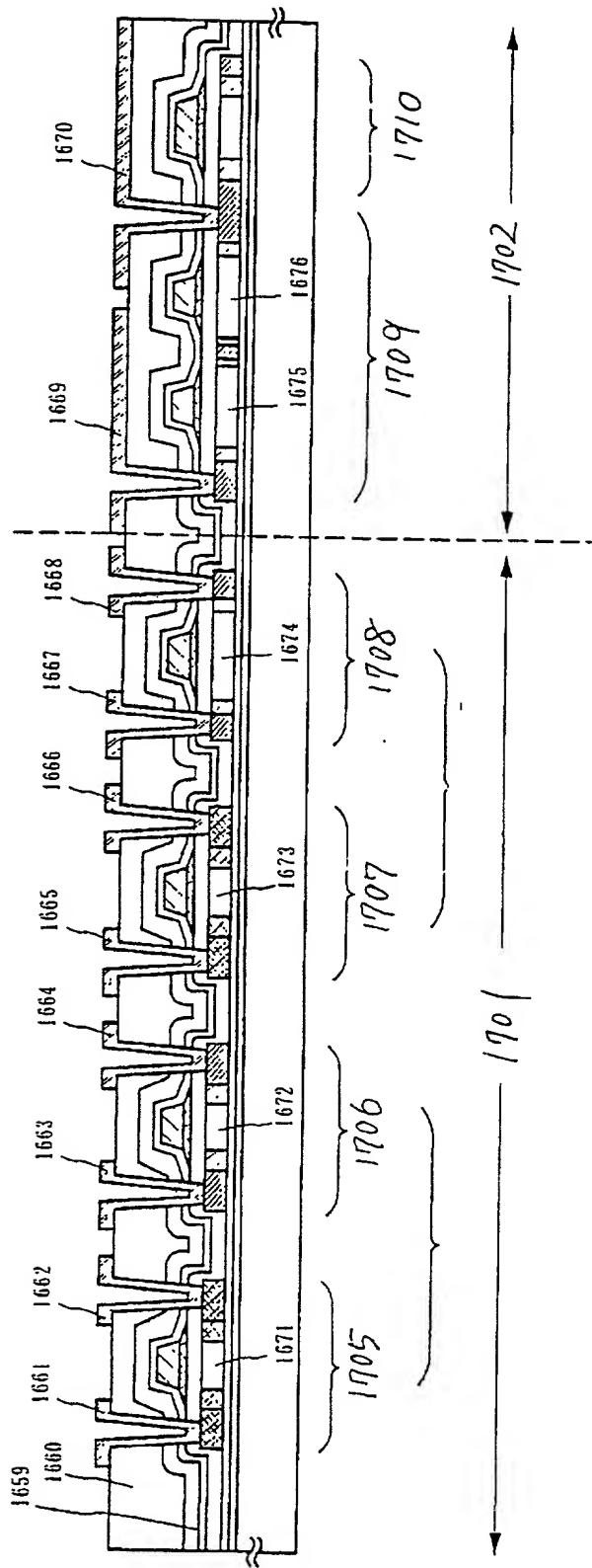
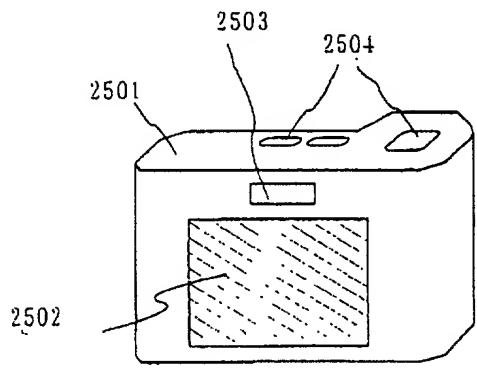
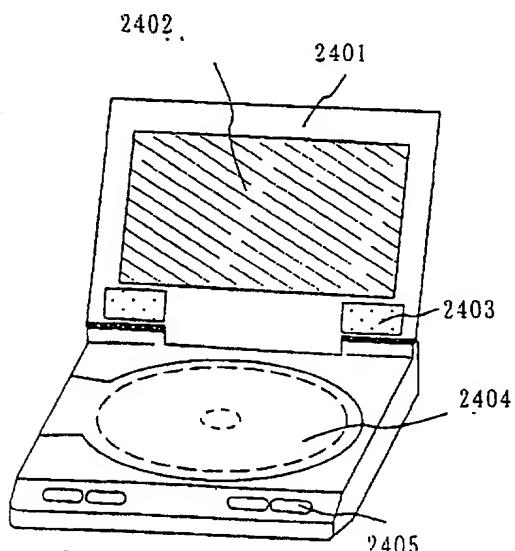
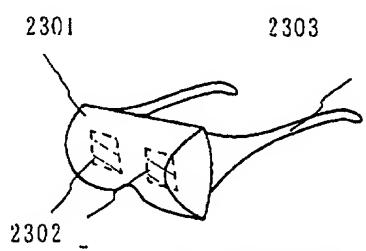
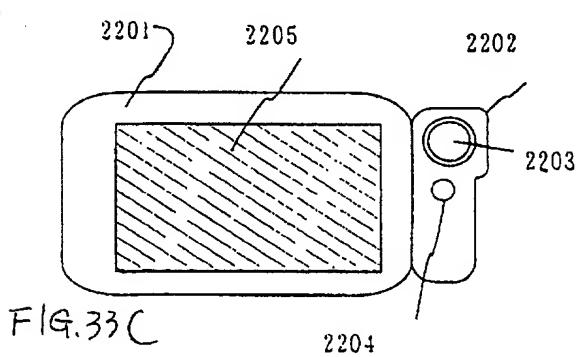
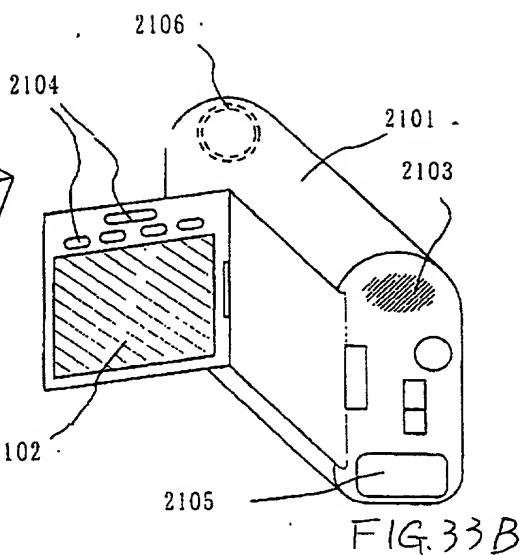
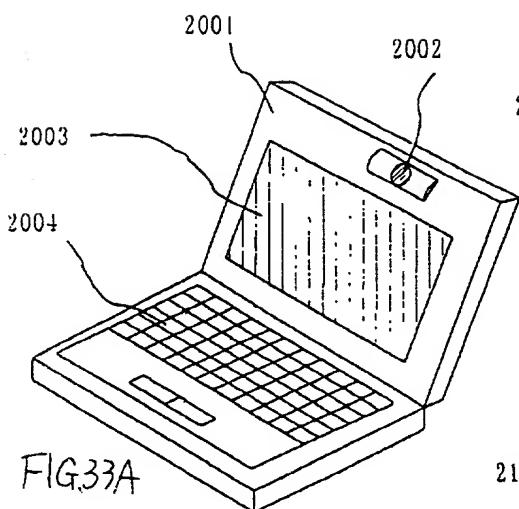


FIG. 32



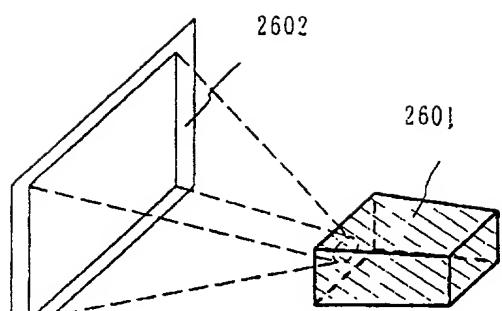


FIG. 34A

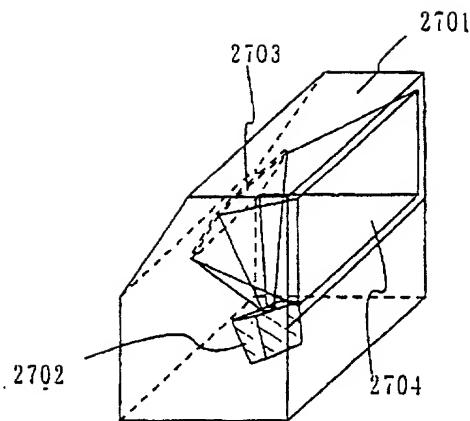


FIG. 34B

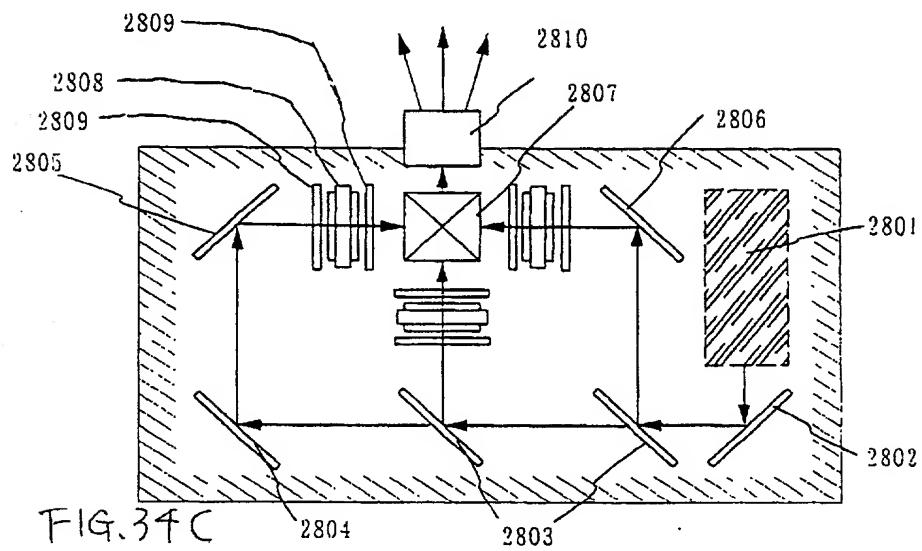


FIG. 34C

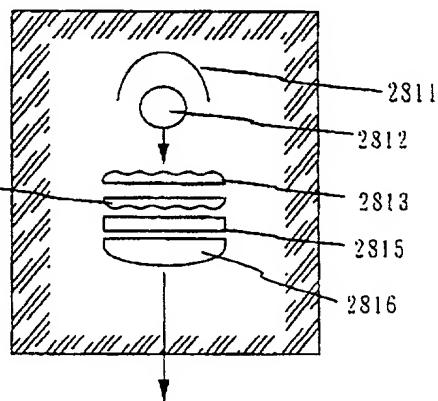
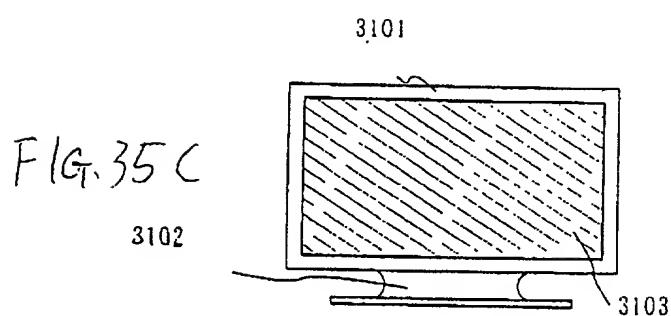
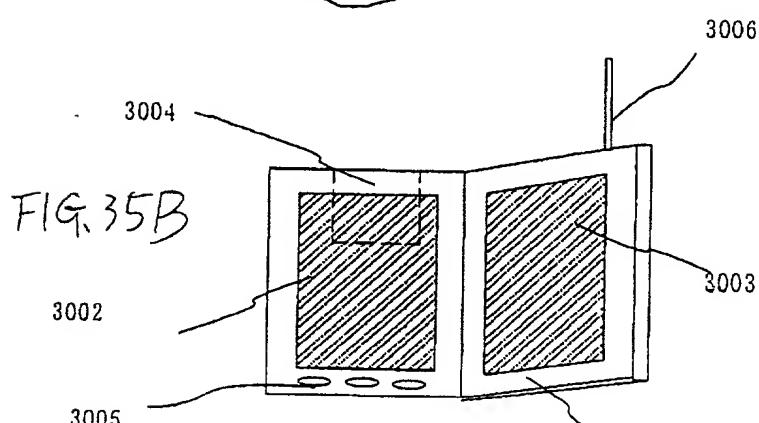
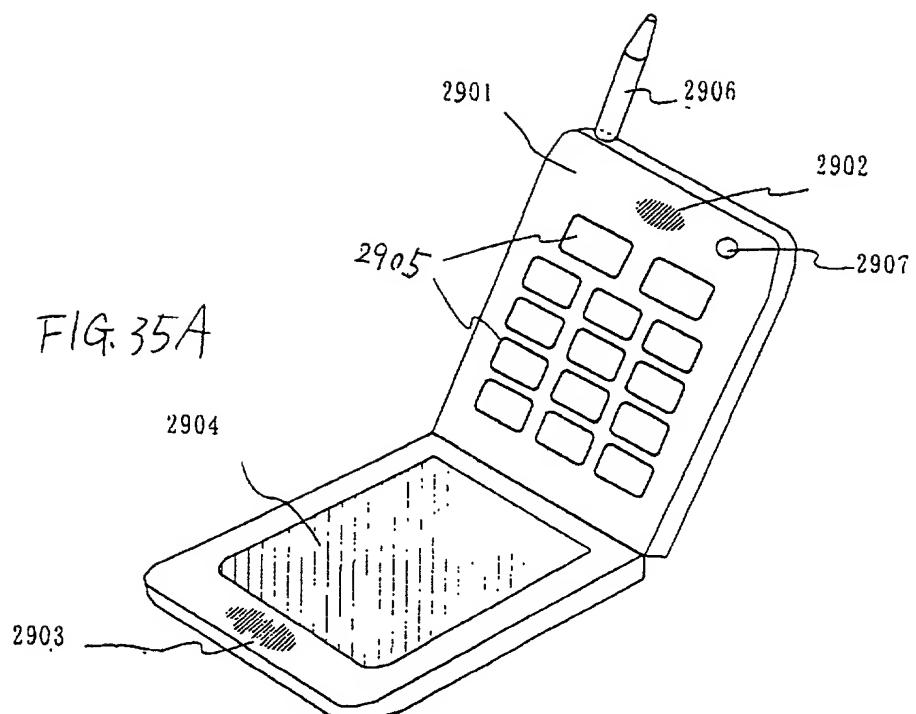


FIG. 34D



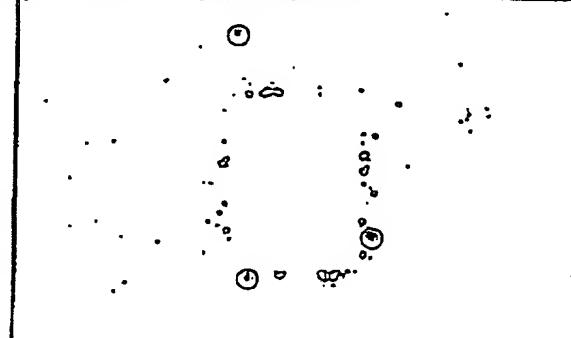
GETTERING CONDITION	
MAGNIFICATION	550°C4hrs
x 200	

FIG. 36